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INNOVATION DIVISION
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NEW YORK, NY 10022

EXAMINER

ALI, HATEM M

ART UNIT PAPER NUMBER

3691

DATE MAILED: 04/04/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,859	10/31/2003	Howard W. Lutnick	02-1078	5126	

TITLE OF INVENTION: ELECTRONIC SYSTEMS AND METHODS FOR PROVIDING A TRADING INTERFACE WITH ADVANCED FEATURES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/05/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on the Patent, advance of the Patent, advance of the Patent in Block 1, by (a	rders and notification (a) specifying a new co	of m	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresp rate "F	ondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  63710 7590 04/04/2011 INNOVATION DIVISION CANTOR FITZGERALD, L.P. 110 EAST 59TH STREET (6TH FLOOR) NEW YORK, NY 10022				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
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APPLICATION NO. 10/699.859	FILING DATE 10/31/2003		FIRST NAMED INVENT			ATTO	02-1078	CON	FIRMATION NO. 5126
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		07/05/2011
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ALI, HATEM M 3691			705-039000						
CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to						
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON ' ified below, no assignee pletion of this form is NO	data will appear on th	e pat an a	tent. If an assignossignment.			cumen	t has been filed for
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5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY statu						ПТҮ status. See 37 CF	7D 1 27	(=)(2)
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10/699,859	10/31/2003 Howard W. Lutnick		02-1078	5126	
63710 75	90 04/04/2011	EXAMINER			
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	TREET (6TH FLOOR	)	ART UNIT	PAPER NUMBER	
NEW YORK, NY	10022		3691		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 514 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 514 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
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	Application No.	Applicant(s)		
	10/699,859	LUTNICK ET AL.		
Notice of Allowability	Examiner	Art Unit		
	HATEM ALI	3691		
	HATEM ALI	3091		
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due cour	rse. <b>THIS</b>	
1. $\boxtimes$ This communication is responsive to $\underline{1/20/11}$ .				
2. X The allowed claim(s) is/are <u>1-7,9-11,20 and 31-55</u> .				
<ul> <li>3. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	e been received. e been received in Applicat	ion No	from the	
International Bureau (PCT Rule 17.2(a)).	cuments have been receiv	ed III tills flational stage application	nom the	
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Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application.	., ., .		
INFORMAL PATENT APPLICATION (PTO-152) which giv  5. CORRECTED DRAWINGS (as "replacement sheets") must	. , ,	or declaration is deficient.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. 🗌 Notice of	nformal Patent Application		
2. $\square$ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date s Amendment/Comment		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit 8. Examiner's Statement of Reasons for Allow				
of Biological Material 9. ☐ Other				
/Hani M. Kazimi/				
Primary Examiner, Art Unit 3691				

Art Unit: 3691

**DETAILED ACTION** 

1. This communication is in response to the application filed on 10/31/2003 and

amended and added new claims on 1/20/2011.

2. The **Allowable** subject matter:

Claims: 1-7, 9-11, 20, and 31-55 are allowed.

Claim 1: (amended) An apparatus comprising:

a display device that simultaneously displays a plurality of quadrants in a single

viewing region, in which each quadrant displays a benchmark issue and a plurality of

non-benchmark issues related to the benchmark issue;

a keyboard that comprises:

(1) a first plurality of keys, in which a first key of the first plurality of keys

corresponds to a first benchmark issue and a second key of the first plurality of keys

corresponds to a second benchmark issue;

(2) a second plurality of keys, in which each key of the second plurality of keys

corresponds to an order for a non-benchmark issue; and a computing device that is

coupled to the display device, the keyboard and a non-transitory machine readable

medium, in which the non-transitory machine readable medium stores instructions

which, when executed by the computing device, direct the computing device to:

in response to the first key being pressed:

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(1) select a first quadrant of the plurality of simultaneously displayed quadrants, in which the first quadrant displays the first benchmark issue;

(2) map the second plurality of keys such that each key of the second plurality of keys corresponds to a non-benchmark issue that is related to the first benchmark issue; and

(3) place an order for the non-benchmark issue in response to one of the second plurality of keys being pressed <u>after the first key being pressed</u>;

in response to the second key being pressed after the first key was pressed:

(1) switch, from the first quadrant, to select a second quadrant of the plurality of simultaneously displayed quadrant, in which the second quadrant displays the second benchmark issue; and

(2) re-map the second plurality of keys such that each key of the second plurality of keys corresponds to a non-benchmark issue related to the second benchmark issue that is displayed in the second quadrant.

**Claim 2:** (amended) The apparatus of claim 1,\_in which the keyboard comprises: a price improvement key, and in which the computing device is directed to:

improves a market price for the selected non-benchmark issue and places the order with the improved market price in advance of other orders in a trading stack in response to the price improvement key being pressed.

**Claim** 3:(amended) The apparatus of claim 1,\_in which the keyboard comprises: a key that provides direct dealing functionality.

**Claim** 4:(amended) The apparatus of claim 1, in which the <u>computing device</u> is further <u>directed</u> to: direct the display device to display information for each of the non-benchmark issue in the selected first quadrant.

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**Claim** 5:(amended) The apparatus of claim 4, in which the selected first quadrant <u>includes</u> a Treasury swaps trading quadrant.

**Claim** 6: The apparatus of claim 5, in which the Treasure swaps trading quadrant includes at least three of the most recent benchmark issues.

**Claim** 7: (amended) The apparatus of claim 4, in which the selected first quadrant <u>includes</u> an off-the-run trading quadrant.

Claim 8: (cancelled)

**Claim** 9:(amended) The apparatus of claim 4, in which the selected first quadrant includes a yield curve trading quadrant.

**Claim** 10:(amended) The apparatus of claim 4, in which the selected first quadrant includes a basis trading quadrant.

Claim 11: (currently amended) The apparatus of claim 4, in which the selected first quadrant is includes a limit orders trading quadrant.

Claim 12-19: (cancelled)

**Claim** 20: (amended) The apparatus of claim 1, in which the <u>computing device</u> - is further <u>directed</u> to:

receive real-time direct dealing content related to <u>at least one</u> non-benchmark issue and trading information related to the <u>at least one</u> non-benchmark issue, in which the direct dealing content comprises at least one of:

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a request for a quote,

a response with a price,

a cancel to a response,

an amendment to a response, and

an accept<u>ance</u> of a response, and in which the trading information comprises limit order data for the non- benchmark issue.

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Claim 21-30: (cancelled)

**Claim** 31:(amended) The apparatus of claim 20, in which the <u>computing device</u> is further configured directed to:

simultaneously display in the first quadrant:

the trading information related to the non-benchmark issue; and

a ticker that displays the received real-time direct dealing content related to the non-benchmark issue.

**Claim** 32: (amended) The apparatus of claim 31, in which the <u>computing device</u> is further configured directed to:

receive a midprice order to buy or sell the non-benchmark issue at a price within a spread market; and

update the <u>displayed</u> direct dealing content in the ticker to include the midprice order to buy or sell the non-benchmark issue.

**Claim** 33: The apparatus of claim 31, in which the ticker includes at least one request that includes an orientation and a size.

**Claim** 34: The apparatus of claim 31, in which the ticker includes at least one response that includes an orientation and a size.

Claim 35: (amended) A method comprising:

simultaneously displaying via a display device a plurality of quadrants in a single viewing region, in which each quadrant displays a benchmark issue and a plurality of non-benchmark issues related to the benchmark issue;

in response to a first key being pressed, selecting, via a processor, a first quadrant of the plurality of simultaneously displayed quadrants, in which the first quadrant displays a first benchmark issue;

in response to the first key being pressed, mapping via the processor a plurality of keys such that each key corresponds to a non-benchmark issue related to the first benchmark issue;

using the processor, placing an order for the non-benchmark issue in response to one of the plurality of keys being pressed after the first key was pressed;

in response to a second key being pressed after the first key was pressed:

switching, via the processor, from the first quadrant to a second quadrant of the plurality of simultaneously displayed quadrant, in which the second quadrant displays a second benchmark issue; and

re-mapping, via the processor, the plurality of keys such that each key corresponds to a non-benchmark issue related to the second benchmark issue that is displayed in the second quadrant.

Claim 36:(amended) The method of claim 35 further comprising:

receiving an indication that a price improvement key of the keyboard has been pressed, in which the price improvement key corresponds to improving a market price for the selected non-benchmark issue; and

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in response to receiving the indication, placing the order with the improved market price in advance of other orders in a trading stack.

**Claim** 37: The method of claim 35 further comprising: providing direct dealing functionality.

**Claim** 38: The method of claim 35 further comprising: displaying information for each of the non-benchmark issue in the selected first quadrant.

**Claim** 39: (amended) The method of claim 38, in which the selected first quadrant includes a Treasury swaps trading quadrant.

**Claim** 40: The method of claim 39, in which the Treasure swaps trading quadrant includes at least three of the most recent benchmark issues.

**Claim** 41: (amended) The method of claim 38, in which the selected first quadrant includes an off-the-run trading quadrant.

**Claim** 42: (amended) The method of claim 38, in which the selected first quadrant includes a yield curve trading quadrant.

**Claim** 43: (amended) The method of claim 38, in which the selected first quadrant <u>includes</u> a basis trading quadrant.

**Claim** 44: (amended) The method of claim 38, in which the selected first quadrant <u>includes</u> a limit orders trading quadrant.

Claim 45 amended) The method of claim 35 further comprising:

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receiving real-time direct dealing content related to the non-benchmark issue and trading information related to the non-benchmark issue, in which the direct dealing content comprises at least one of:

a request for a quote,

a response with a price,

a cancel to a response,

an amendment a response, and

an accept<u>ance of</u> a response, and in which the trading information comprises limit order data for the non- benchmark issue.

**Claim** 46: The method of claim 45 further comprising simultaneously displaying in the first quadrant: the trading information related to the non-benchmark issue; and

a ticker that displays the received real-time direct dealing content related to the non-benchmark issue.

Claim 47: (amended) The method of claim 46 further comprising: receiving a midprice order to buy or sell the non-benchmark issue at a price within a spread market; and

updating the <u>displayed</u> direct dealing content in the ticker to include the midprice order to buy or sell the non-benchmark issue.

**Claim** 48: The method of claim 46, in which the ticker includes at least one request that includes an orientation and a size.

**Claim** 49: The method of claim 46, in which the ticker includes at least one response that includes an orientation and a size.

Claim 50:(new) The apparatus of claim 1, in which the keyboard further comprises a direct dealing key; and in which the computing device is further directed to: in response to the direct dealing key being pressed before the second key and after the first key, transmitting a request for a submission of orders for the non-benchmark issue at a midpoint price of a current spread for orders of the non-benchmark issue; and receiving at least one order in response to the request, and directing the display device to display the at least one order.

**Claim** 51:(new) The apparatus of claim 50, in which displaying the at least one order includes displaying a plurality of orders through a ticker in the first quadrant in response to the orders being placed.

Claim 52:(new) The apparatus of claim 1, in which the keyboard further comprises a price improvement key; and in which the computing device is further directed to: in response to the price improvement key being pressed before the second key and after the first key, placing the order having a price that places the order at a front of an order stack of orders for the non-benchmark issue.

Claim 53: (new) The method of claim 35, further comprising: in response to a direct dealing key being pressed before the second key and after the first key, transmitting a request for a submission of orders for the non-benchmark issue at a midpoint price of a current spread for orders of the non-benchmark issue; and receiving at least one order in response to the request, and directing the display device to display the at least one order.

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Claim 54: (new) The method of claim 53, in which displaying the at least one

order includes displaying a plurality of orders through a ticker in the first quadrant in

response to the orders being placed.

Claim 55: (new) The method of claim 35, further comprising: in response to a

price improvement key being pressed before the second key and after the first key,

placing the order having a price that places the order at a front of an order stack of

orders for the non- benchmark issue.

3. The following is an examiner's statement of reasons for the indication of

allowance:

Independent claims 1, and 35 and their dependent claims 2-7, 9-11, 31-34, and

**36-55** respectively are allowed because the closest prior art of record and references of

Fraser et al (5, 95, 94) in view of Kerwin et al (2002/0029180), Sweeting

(2006/0229967) and **Kemp** et al (7, 389,268) in any combination did not teach or render

obvious to one of ordinary skill in the art:

An apparatus comprising:

a display device that simultaneously displays a plurality of quadrants in a single

viewing region, in which each quadrant displays a benchmark issue and a plurality of

non-benchmark issues related to the benchmark issue;

a keyboard that comprises:

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(1) a first plurality of keys, in which a first key of the first plurality of keys

corresponds to a first benchmark issue and a second key of the first plurality of keys

corresponds to a second benchmark issue;

(2) a second plurality of keys, in which each key of the second plurality of keys

Page 11

corresponds to an order for a non-benchmark issue; and a computing device that is

coupled to the display device, the keyboard and a non-transitory machine readable

medium, in which the non-transitory machine readable medium stores instructions

which, when executed by the computing device, direct the computing device to:

in response to the first key being pressed:

(1) select a first quadrant of the plurality of simultaneously displayed quadrants,

in which the first quadrant displays the first benchmark issue;

(2) map the second plurality of keys such that each key of the second plurality of

keys corresponds to a non-benchmark issue that is related to the first benchmark issue;

and

(3) place an order for the non-benchmark issue in response to one of the second

plurality of keys being pressed after the first key being pressed;

in response to the second key being pressed after the first key was pressed:

(1) switch, from the first quadrant, to select a second quadrant of the plurality of

simultaneously displayed quadrant, in which the second quadrant displays the second

benchmark issue; and

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(2) re-map the second plurality of keys such that each key of the second plurality of keys corresponds to a non-benchmark issue related to the second benchmark issue that is displayed in the second quadrant.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HATEM ALI whose telephone number is (571)270-3021. The examiner can normally be reached on 8.00 to 6.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ALEXANDER KALINOWSKI can be reached on 571-272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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HATEM ALI Examiner Art Unit 3691

/Hani M. Kazimi/

Primary Examiner, Art Unit 3691